

Steam Trap Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 – 2032

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Abstracts

The Global Steam Trap Market was valued at USD 3.9 billion in 2023 and is projected to grow at a CAGR of 4.1% from 2024 to 2032. This growth is driven by increasing industrial automation and the demand for improved process efficiency. Industries are adopting advanced steam traps to integrate seamlessly with automated systems, ensuring efficient removal of condensate while retaining valuable steam. These traps enhance system reliability, reduce downtime, and minimize energy waste, making them indispensable for modern industrial setups.

Key sectors such as chemicals, pharmaceuticals, and food processing fuel the demand for efficient steam traps. Steam plays a vital role in these industries, and the adoption of advanced traps helps optimize steam utilization, lowering energy consumption and reducing carbon emissions. With a growing focus on sustainability, businesses invest in automated steam traps to enhance efficiency and meet environmental targets.

However, the market faces challenges due to the high costs associated with installation and maintenance. The integration of advanced features like automation and IoT requires significant investment, making it difficult for smaller enterprises to adopt these solutions. Expenses include not only the steam traps but also the infrastructure needed for system integration and monitoring. Upgrading outdated or extensive steam networks further adds to the complexity and cost.

By type, the mechanical steam trap segment held a market value of USD 1.8 billion in 2023 and is expected to grow at a CAGR of 4.4% through 2032. Mechanical traps, including thermostatic, thermodynamic, and inverted bucket types, are favored for their reliability and cost-effectiveness. These traps efficiently discharge condensate while retaining steam, making them ideal for high-pressure and high-temperature

applications. Their durability and low maintenance needs make them a popular choice for industries such as power generation, food processing, and chemicals.

In terms of distribution, the indirect sales channel dominated the market in 2023, accounting for 62.5% share, and is set to grow at a CAGR of 4.5% through 2032. Indirect sales channels, including distributors, agents, and resellers, provide manufacturers with broader access to diverse markets. These intermediaries offer localized expertise and tailored solutions for industries like oil and gas and food processing, strengthening their role in market expansion.

U.S. steam trap market contributed 79.1% share in 2023 and is forecasted to grow at a CAGR of 3.7% through 2032. The market benefits from a strong industrial base and increasing emphasis on energy efficiency. The shift toward smart, IoT-enabled traps supports Industry 4.0 initiatives, enabling real-time monitoring and predictive maintenance. Additionally, stringent regulations on energy conservation and emissions reduction are prompting the adoption of advanced steam trap technologies.

Contents

Report Content

CHAPTER 1 METHODOLOGY & SCOPE

- 1.1 Market scope & definition
- 1.2 Base estimates & calculations
- 1.3 Forecast parameters
- 1.4 Data sources
 - 1.4.1 Primary
 - 1.4.2 Secondary
 - 1.4.2.1 Paid sources
 - 1.4.2.2 Public sources

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry synopsis, 2021 - 2032

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
 - 3.1.1 Factors affecting the value chain
 - 3.1.2 Profit margin analysis
 - 3.1.3 Disruptions
 - 3.1.4 Future outlook
 - 3.1.5 Manufacturers
 - 3.1.6 Distributors
- 3.2 Supplier landscape
- 3.3 Profit margin analysis
- 3.4 Key news & initiatives
- 3.5 Regulatory landscape
- 3.6 Impact forces
 - 3.6.1 Growth drivers
 - 3.6.1.1 Increased industrial automation and process efficiency demands
 - 3.6.1.2 Rising adoption of energy-efficient solutions in manufacturing
 - 3.6.1.3 Government regulations on energy conservation and emissions reduction
 - 3.6.2 Industry pitfalls & challenges
 - 3.6.2.1 High initial installation and maintenance costs

- 3.6.2.2 Limited awareness and expertise in steam trap maintenance
- 3.7 Growth potential analysis
- 3.8 Technological overview
- 3.9 Porter's analysis
- 3.10 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2023

- 4.1 Introduction
- 4.2 Company market share analysis
- 4.3 Competitive positioning matrix
- 4.4 Strategic outlook matrix

CHAPTER 5 STEAM TRAP MARKET ESTIMATES & FORECAST, BY TYPE, 2021 – 2032, (USD BILLION) (THOUSAND UNITS)

- 5.1 Key trends
- 5.2 Mechanical steam trap
- 5.3 Thermodynamic steam trap
- 5.4 Thermostatic steam trap

CHAPTER 6 STEAM TRAP MARKET ESTIMATES & FORECAST, BY FUNCTION, 2021 – 2032, (USD BILLION) (THOUSAND UNITS)

- 6.1 Key trends
- 6.2 Steam distribution
- 6.3 Condensate recovery

CHAPTER 7 STEAM TRAP MARKET ESTIMATES & FORECAST, BY APPLICATION, 2021 – 2032, (USD BILLION) (THOUSAND UNITS)

- 7.1 Key trends
- 7.2 Residential
- 7.3 Commercial
- 7.4 Industrial

CHAPTER 8 STEAM TRAP MARKET ESTIMATES & FORECAST, BY END USER, 2021 – 2032, (USD BILLION) (THOUSAND UNITS)

- 8.1 Key trends
- 8.2 Process industry
- 8.3 Power generation
- 8.4 HVAC & district heating
- 8.5 Pharmaceuticals & healthcare
- 8.6 Others

CHAPTER 9 STEAM TRAP MARKET ESTIMATES & FORECAST, BY DISTRIBUTION CHANNEL, 2021 – 2032, (USD BILLION) (THOUSAND UNITS)

- 9.1 Key trends
- 9.2 Direct sales
- 9.3 Indirect sales

CHAPTER 10 STEAM TRAP MARKET ESTIMATES & FORECAST, BY REGION, 2021 – 2032, (USD BILLION) (THOUSAND UNITS)

- 10.1 Key trends
- 10.2 North America
 - 10.2.1 U.S.
 - 10.2.2 Canada
- 10.3 Europe
 - 10.3.1 Germany
 - 10.3.2 UK
 - 10.3.3 France
 - 10.3.4 Italy
 - 10.3.5 Spain
 - 10.3.6 Russia
- 10.4 Asia Pacific
 - 10.4.1 China
 - 10.4.2 India
 - 10.4.3 Japan
 - 10.4.4 South Korea
 - 10.4.5 Australia
- 10.5 Latin America
 - 10.5.1 Brazil
 - 10.5.2 Mexico
- 10.6 MEA
 - 10.6.1 Saudi Arabia

10.6.2 UAE

10.6.3 South Africa

CHAPTER 11 COMPANY PROFILES

11.1 Armstrong International, Inc.

11.2 Danfoss A/S

11.3 Emerson Electric Co.

11.4 Flowserve Corporation

11.5 Forbes Marshall Private Limited

11.6 GESTRA AG

11.7 Miura Co., Ltd.

11.8 Pentair plc

11.9 Schlumberger Limited

11.10 Spirax-Sarco Engineering plc

11.11 Thermax Limited

11.12 TLV International, Inc.

11.13 Velan Inc.

11.14 Watson-McDaniel Company

11.15 Yoshitake, Inc.

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